

**WHAT IS CLAIMED IS:**

5 1. An apparatus for installing a plumbing component into a basin, the plumbing component including a top section and a bottom section, the top section having a flange for mounting to a top surface of the basin and an upper threaded outer surface, the bottom section having a lower threaded outer surface and defining an aperture, the apparatus comprising:

10 a first member having a top end and a bottom end, said top end having a locking mechanism configured to releasably attach said top end of said first member to the bottom section of the plumbing component; and

15 a second member having a top end and a bottom end and defining an aperture for receiving said first member therein, said top end of said second member being configured to secure a lock that threadedly engages the upper threaded outer surface of the top section of the plumbing component.

20 2. The apparatus of claim 1, wherein said locking mechanism of said first member is configured to releasably attach to one or more retainer bars extending across the aperture of the bottom section.

25 3. The apparatus of claim 1, further comprising an end piece configured to be secured to said bottom end of said first member that extends beyond said bottom end of said second member, said end piece preventing said second member from falling from said bottom end of said first member.

30 4. The apparatus of claim 3, wherein said end piece is an end cap, an o-ring, a flange section, or a pin.

1      **49076/MEG/S971**

5.    The apparatus of claim 1, wherein said second member is displaceable along said first member.

5    6.    The apparatus of claim 1, wherein said second member is rotatable around said first member.

10    7.    The apparatus of claim 1, wherein said locking mechanism comprises a bayonet-type notched top end having one or more arcuate walls extending from a base of said bayonet-type notched top end, said one or more arcuate walls having a slot therein configured to receive a retainer bar of the plumbing component.

15    8.    The apparatus of claim 1, wherein said locking mechanism comprises a retainer nut having a threaded inner diameter, said threaded inner diameter being threadedly secured to the lower threaded outer surface of the bottom section of the  
20    plumbing component.

25    9.    The apparatus of claim 1, wherein said locking mechanism comprises a flexible rubber attachment, said flexible rubber attachment configured to be placed over the lower threaded outer surface thereby releasably attaching said first member to the bottom section of the plumbing component.

30    10.   The apparatus of claim 1, wherein said top end of said second member comprises a slotted top end having one or more arcuate walls extending from a base of said slotted top end of said second member and defining one or more adjacent apertures, wherein said lock is configured to be inserted into said slotted top end.

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1       **49076/MEG/S971**

11. The apparatus of claim 1, wherein said top portion of  
said second member has a larger diameter than said bottom  
5 portion of said second member, said larger diameter being  
configured to secure said lock that threadedly engages the top  
threaded outer surface of the plumbing component, said bottom  
portion diameter being configured to receive said bottom end  
of said first member.

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12. The apparatus of claim 1, wherein said second member is  
rotated to threadedly secure said lock supported by said  
second member to the outer threaded surface of the top section  
of the plumbing component.

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13. The apparatus of claim 1, wherein the plumbing component  
comprises a strainer.

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14. The apparatus of claim 1, wherein the basin comprises a  
sink or tub.

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15. A system for installing and removing a plumbing component  
having a top section with a flange for mounting to a top  
surface of a basin and an upper threaded outer surface, a  
bottom section with a lower threaded outer surface and  
defining an aperture with one or more retainer bars extending  
across the aperture to define a plurality of strainer  
apertures, the system comprising:

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a first member having a top end and a bottom end, said  
top end having a locking mechanism configured to releasably  
attach said top end of the first member to the plumbing  
component;

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a second member having a top end and a bottom end and  
defining an aperture for receiving said first member therein,

5 said top end of said second member being configured to secure a lock that threadedly engages the upper threaded outer surface of the top section of the plumbing component.

10 a lock positioned within said top end of said second member, said lock having a face for mounting to a bottom surface of the sink and configured for threadedly engaging the outer threaded surface of the top section of the plumbing component; and

an end piece secured to said bottom end of said first member that extends beyond said bottom end of said second member, said end piece preventing said second member from falling off said bottom end of said first member,

15 wherein said second member and said lock received therein are rotatable around said first member to threadedly secure the basin between the flange of the plumbing component and said mounting face of said lock.

20 16. The system of claim 15, wherein said locking mechanism comprises a bayonet-type notched end having one or more arcuate walls extending from a base of said bayonet-type notched top end and defining one or more adjacent apertures, said one or more arcuate walls having a slot therein  
25 configured to receive a retainer bar of the plumbing component.

30 17. The system of claim 16, wherein said bayonet-type notched top end is releasably attached to the one or more retainer bars by twisting said first member such that the one or more retainer bars are inserted into and secured within the one or more slots of said one or more arcuate walls.

1       **49076/MEG/S971**

18. The system of claim 15, wherein said locking mechanism  
comprises a retainer nut, said retainer nut having an inner  
5 threaded diameter configured for releasably attaching to the  
outer threaded surface of the bottom section of the plumbing  
component.

19. The system of claim 15, wherein said second member is  
10 displaceable along said first member and retained from falling  
from said bottom end of said second member by said end piece.

20. The system of claim 15, said top end of said second  
member defining one or more recesses, wherein said lock  
15 includes one or more ridges configured for insertion into said  
one or more recesses.

21. The system of claim 15, wherein said plumbing component  
comprises a strainer.

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22. The system of claim 15, wherein said end piece is an end  
cap, an o-ring, a flange section, or a pin.

23. A method of installing a plumbing component in a basin, a  
25 surface of the basin being secured between a flange of the  
plumbing component and a face of a lock, the plumbing  
component having a top section and a bottom section, the top  
section having the flange and an upper threaded outer surface,  
the bottom section having a lower threaded outer surface and  
30 defining an aperture with one or more retainer bars extending  
across the aperture to define a plurality of retainer  
apertures, the method comprising:

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1      **49076/MEG/S971**

         providing a first member and a second member, the second  
member defining an aperture configured to receive the first  
5      member therein;

         releasably attaching a top end of the first member to the  
plumbing component with a locking mechanism;

         installing the lock onto a top surface of the second  
member;

10      placing the second member over the first member to engage  
the lock with the threaded outer surface of the bottom  
section; and

         rotating the second member and the lock to threadedly  
secure the basin surface between the flange and the lock fall.

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24. The method of claim 23, further comprising installing an  
end piece on a bottom end of the first member that extends  
beyond the bottom end of the second member, thereby preventing  
the second member from falling from the bottom end of the  
20      first member.

25. The method of claim 23, wherein placing the second member  
over the first member further comprises inserting the first  
member through the top end of the second member.

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